INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38939

					
A. CLASSIFICATION OF SUBJECT MATTER					
	IPC(7) : B29C 45/76				
US CL	: 264/40.1, 410; 425/135, 169, 170, 171	tional alassification and IDC			
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum do	cumentation searched (classification system followed by	by classification symbols)			
U.S. : 2	64/40.1, 410; 425/135, 169, 170, 171				
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	n the fields searched		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
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<u> </u>					
Electronic da	ata base consulted during the international search (name	e of data base and, where practicable, sear	rch terms used)		
1	-	•			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	nnrongiste of the relevant passages	Relevant to claim No.		
X	US 2002/0068106 A1 (KACHNIC et al) 06 June 200		1,3		
^	US 2002/0006100 AT (KACHINIC et al) 00 Julie 200	02 (00.00.2002), Fig. 3.	1,3		
Α	US 4,806,292 A (DELACY) 21 February 1989 (21.0	02 1989) Fig 1	1,3		
l	00 4,000,252 11 (BBB101) 21 1001am j 1505 (B1.	02.1707), 1 ig. 1.	1,5		
l a	US 4,871,493 A (GOTO) 03 October 1989 (03.10.1989), column 2, lines 39-53.		1,3		
}	50 4,071,473 A (0010) 03 October 1305 (03.10.1305), Column 2, Inics 33-33.		-1-		
Α	US 4,933,126 A (SHUMAN) 12 June 1990 (12.06.1990), Fig. 2.		1,3		
(· -			
A	A US 5,158,724 A (YAGI et al) 27 October 1992 (27.10.1992), Fig. 1.		1,3		
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Further	r documents are listed in the continuation of Box C.	See patent family annex.			
Special categories of cited documents:		"T" later document published after the inte			
"A" document defining the general state of the art which is not considered to be		date and not in conflict with the applic principle or theory underlying the inve			
of particular relevance					
"E" earlier ar	oplication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside			
		when the document is taken alone	rea to miorio an arienare step		
	at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	claimed invention cannot be		
specified		considered to involve an inventive step	when the document is		
"O" document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the			
"O" document referring to an oral disclosure, use, exhibition or other means		-	c an		
"P" document published prior to the international filing date but later than the		"&" document member of the same patent	family		
priority date claimed		I 5	· 		
Date of the actual completion of the international search		Date of mailing of the international search report			
24 May 2005 (24.05.2005)		13 JUN 2005			
Name and mailing address of the ISA/US		Authorized officer			
Mail Stop PCT, Attn: ISA/US		Pohor Posico			
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: 2 because they relate to subject matter not required to be searched by this Authority, namely: Please See Continuation Sheet			
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/38939
Box II Observations where certain claims were found unsearchable 1. because searched by this Authority, namely: The claim directs to neither a "process" nor a "machine," but rather embraces or of forth in 35 USC 101 which is drafted so as to set forth the statutory classes of inventions.	verlaps two different statutory classes of invention set